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| ADVISORY:   4039 |       SYSTEMS AND PROGRAMMING           | DATE: 01/21/80 |
|_____|                                        |_____|
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| TITLE:  Availability of Duplicate Finder Utility                             |
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| Purpose |
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To announce the availability of a Duplicate Finder Utility (S076V130)

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| General Description  |
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```
This program will read a sequential file and search for duplicates.
Records will be copied to one of two files depending on whether or not
they are duplicates. If any errors occur, a message will be displayed
and the Return Code will be set to 16; otherwise, the Return Code will be
set to zero. The location of the field to be compared will be input to
the program in the PARM field on the EXEC card.

The necessary JCL to execute the program is as follows:

```
    //S076V130 EXEC PGM = S076V130, PARM = 'type, position, length'
    //SYSOUT   DD    SYSOUT=*
    //DATA     DD    DSN= . . .  (input file)
    //OFILE    DD    DSN= . . .  (standard output file)
    //DUPFILE  DD    DSN= . . .  (duplicate output file)
```

The input file can be any sequential file, with either fixed or variable
length records. The program will determine its format. In a type 'F'
run there is no limit to the record size. In a type 'N' run the maximum
record length is 4096 bytes. There are NO default values for the DCB
information on the output files so they must be specified by the user.

The PARM consists of three subparameters. The first subparameter is the
run type and must be either 'F' or 'N'. The second subparameter is the
key position. In the case of variable length records, the Record
Descriptor Word must be taken into account when coding the position
i.e. code position 5 if the key starts in the first position of the user
data). The third subparameter is the length of the key field. Maximum
key length is 256 bytes.

In a type 'F' run, if more than one record has the same key, the first
record will be written to OFILE and subsequent records will be written
to DUPFILE. In a type 'N' run, if more than one record has the same
key, none will be written to OFILE; they will all be written to DUPFILE.
The difference is shown by the example below.

```
 _____
| Example of Type 'F' and Type 'N'  |
|_____|
Example: (Select Positions 1-4)

DATA:   076A331
        076C210
        076V130
        076V230
        076V240
        076Y070


PARM = 'F', 1, 4' OFILE: 076A331 DUPFILE: 076V230
                         076C210          076V240
                         076V130
                         076Y070


PARM = 'N', 1, 4' OFILE: 076A331 DUPFILE: 076V130
                         076C210          076V230
                         076Y070          076V240
```

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